

=====

Sequence Listing was accepted with existing errors.  
See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum  
Timestamp: Wed Jun 06 09:31:44 EDT 2007

=====

Application No: 10587370 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2007-06-05 17:16:20.859  
**Finished:** 2007-06-05 17:16:24.597  
**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 738 ms  
**Total Warnings:** 28  
**Total Errors:** 2  
**No. of SeqIDs Defined:** 33  
**Actual SeqID Count:** 33

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)

**Input Set:**

**Output Set:**

**Started:** 2007-06-05 17:16:20.859  
**Finished:** 2007-06-05 17:16:24.597  
**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 738 ms  
**Total Warnings:** 28  
**Total Errors:** 2  
**No. of SeqIDs Defined:** 33  
**Actual SeqID Count:** 33

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (33)

SEQUENCE LISTING

<110> Genentech, Inc.

<120> BCMA POLYPEPTIDES AND USES THEREOF

<130> 11669.0237USWO

<140> 10587370

<141> 2007-06-05

<150> 10/587,370

<151> 2006-07-26

<150> PCT/US2004/025247

<151> 2004-08-04

<150> US 60/540,271

<151> 2004-01-29

<160> 33

'

<170> PatentIn version 3.3

<210> 1

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<220>

<221> MISC\_FEATURE

<222> (2)..(5)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (7)..(7)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (9)..(9)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (11)..(11)

<223> Xaa is any amino acid residue except Ala and cysteine

<220>

<221> MISC\_FEATURE

<222> (12)..(13)

<223> Xaa is any amino acid except cysteine

```
<220>
<221> MISC_FEATURE
<222> (16) .. (16)
<223> Xaa is any amino acid except cysteine
```

```
<220>
<221> MISC_FEATURE
<222> (18) .. (20)
<223> Xaa is any amino acid except cysteine
```

```
<220>
<221> MISC_FEATURE
<222> (22) .. (29)
<223> Xaa is any amino acid except cysteine
```

```
<220>
<221> MISC_FEATURE
<222> (31) .. (33)
<223> Xaa is any amino acid except cysteine
```

```
<400> 1
```

Cys Xaa Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Lys Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

```
<210> 2
<211> 40
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Synthetic Sequence
```

```
<220>
<221> MISC_FEATURE
<222> (2) .. (5)
<223> Xaa is any amino acid except cysteine
```

```
<220>
<221> MISC_FEATURE
<222> (7) .. (7)
<223> Xaa is any amino acid except cysteine
```

```
<220>
<221> MISC_FEATURE
<222> (9) .. (9)
```

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (11)..(11)

<223> Xaa is any amino acid residue except Ala and cysteine

<220>

<221> MISC\_FEATURE

<222> (12)..(13)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (16)..(16)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (18)..(20)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (22)..(29)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (31)..(33)

<223> Xaa is any amino acid except cysteine

<400> 2

Cys Xaa Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Lys Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys Asn Ser Val Lys Gly Thr  
35 40

<210> 3  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<220>  
<221> MISC\_FEATURE

<222> (2)..(5)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (11)..(11)  
<223> Xaa is Leu, Val or Ile

<220>  
<221> MISC\_FEATURE  
<222> (12)..(13)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (16)..(16)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (18)..(20)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (22)..(29)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (31)..(33)  
<223> Xaa is any amino acid except cysteine

<400> 3

Cys Xaa Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Lys Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

<210> 4  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<220>  
<221> MISC\_FEATURE  
<222> (2)..(5)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (11)..(11)  
<223> Xaa is any amino acid residue except Ala and cysteine

<220>  
<221> MISC\_FEATURE  
<222> (12)..(13)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (16)..(16)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (18)..(18)  
<223> Xaa is selected from the group consisting of Gln, Asp and Ala

<220>  
<221> MISC\_FEATURE  
<222> (19)..(20)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (22)..(29)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (31)..(33)

<223> Xaa is any amino acid except cysteine

<400> 4

Cys Xaa Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Lys Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

<210> 5

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<220>

<221> MISC\_FEATURE

<222> (2)..(5)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (7)..(7)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (9)..(9)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (11)..(11)

<223> Xaa is any amino acid residue except Ala and cysteine

<220>

<221> MISC\_FEATURE

<222> (12)..(13)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (16)..(16)

<223> Xaa is any amino acid except cysteine

<220>

<221> MISC\_FEATURE

<222> (18)..(18)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (22)..(29)  
<223> Xaa is any amino acid except cysteine

<220>  
<221> MISC\_FEATURE  
<222> (31)..(33)  
<223> Xaa is any amino acid except cysteine

<400> 5

Cys Xaa Xaa Xaa Xaa Tyr Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Lys Xaa  
1 5 10 15

Cys Xaa Asp Tyr Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

<210> 6  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 6

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Lys Pro  
1 5 10 15

Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg  
20 25 30

Tyr Cys

<210> 7  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 7

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Lys Pro  
1 5 10 15

Cys Asp Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg  
20 25 30

Tyr Cys

<210> 8

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 8

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Lys Pro  
1 5 10 15

Cys Asp Leu Tyr Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg  
20 25 30

Tyr Cys

<210> 9

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 9

Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Val His Ala Cys Lys Pro  
1 5 10 15

Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg  
20 25 30

Tyr Cys

<210> 10  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<220>  
<221> MISC\_FEATURE  
<222> (2)..(5)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser and Phe

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (11)..(11)  
<223> Xaa is any amino acid residue except Ala

<220>  
<221> MISC\_FEATURE  
<222> (12)..(13)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (15)..(15)  
<223> Xaa is any amino acid residue except Ala or Lys

<220>  
<221> MISC\_FEATURE  
<222> (16)..(16)

<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (18) .. (18)  
<223> Xaa is selected from the group consisting of Gln, Asp and Ala

<220>  
<221> MISC\_FEATURE  
<222> (19) .. (19)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (20) .. (20)  
<223> Xaa is selected from the group consisting of Tyr and Ala

<220>  
<221> MISC\_FEATURE  
<222> (22) .. (29)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (31) .. (33)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<400> 10

Cys Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Xaa Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

<210> 11  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<220>  
<221> MISC\_FEATURE  
<222> (2)..(5)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser and Phe

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (11)..(11)  
<223> Xaa is Leu, Val or Ile

<220>  
<221> MISC\_FEATURE  
<222> (12)..(13)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (15)..(15)  
<223> Xaa is any amino acid residue except Ala or Lys

<220>  
<221> MISC\_FEATURE  
<222> (16)..(16)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (18)..(18)  
<223> Xaa is selected from the group consisting of Gln, Asp and Ala

<220>  
<221> MISC\_FEATURE  
<222> (19)..(19)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (20)..(20)  
<223> Xaa is selected from the group consisting of Tyr and Ala

<220>  
<221> MISC\_FEATURE  
<222> (22)..(29)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (31)..(33)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<400> 11

Cys Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Xaa Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

<210> 12  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<220>  
<221> MISC\_FEATURE  
<222> (2)..(5)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>

<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> Xaa is selected from the group consisting of Tyr, Ala, Asp, Ser and Phe

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (11)..(11)  
<223> Xaa is any amino acid residue except Ala

<220>  
<221> MISC\_FEATURE  
<222> (12)..(13)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (15)..(15)  
<223> Xaa is Ile, Val or Ala

<220>  
<221> MISC\_FEATURE  
<222> (16)..(16)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (18)..(18)  
<223> Xaa is selected from the group consisting of Gln, Asp and Ala

<220>  
<221> MISC\_FEATURE  
<222> (19)..(19)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE

<222> (20)..(20)  
<223> Xaa is selected from the group consisting of Tyr and Ala

<220>  
<221> MISC\_FEATURE  
<222> (22)..(29)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<220>  
<221> MISC\_FEATURE  
<222> (31)..(33)  
<223> Xaa is any amino acid except cysteine; and provided that the synthetic sequence does not comprise the sequence  
CSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYC

<400> 12

Cys Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Xaa Xaa Xaa Cys Xaa Xaa  
1 5 10 15

Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa  
20 25 30

Xaa Cys

<210> 13  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Sequence

<400> 13

Cys Ser Gln Asn Glu Ala Phe Asp Ser Leu Leu His Ala Cys Ile Pro  
1 5 10 15

Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg  
20 25 30

Tyr Cys

<210> 14  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 14

Cys Ser Gln Asn Glu Ser Phe Asp Ser Leu Leu His Ala Cys Ile Pro  
1 5 10 15

Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg  
20 25 30

Tyr Cys

<210> 15

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Sequence

<400> 15

Cys Ser Gln Asn Glu Phe Phe Asp Ser Leu Leu His Ala Cys Ile Pro  
1 5 10 15

Cys Gln Leu Arg